VOL. 3 NO. 3 Robert Heil, editor MARCH 1985

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THE CENTRAL PENNSYLVANIA TIMEX/SINCLAIR COMPUTER USERS GROUP
nonprofit support for the TIMEX/SINCLAIR line of computers and products

FROM THE EDITORS DESK

First the good news! After 3 years of publication it seems that SYNAPSE has begun to blossom. In the last 4 months the number of subscriber and advertiser response has increased dramatically. Along with this is the generosity of our printer. Because of our nonprofit status our printer has given us a terrific price for monthly publication. In fact, combining the decrease in publication cost and rise in subscribers, we are able to give you more newlsletter for your money. Starting with this issue you will be receiving 12 pages per month at no extra charge to you.

Now for the bad news. Well, there really is no bad news. Higgenbottom has still not purchased Timex, and Sinclair has still not brought his computers over here himself. In spite of all of this the cottage industry suppliers of software and hardware for the Timex line of computers is still very strong. New products are continually being developed. New groups of computer fanatics are still being formed. We will add to SYNAPSE two new "columns": ACTIVE USERS GROUPS and SURVIVING WITHOUT TIMEX. Surviving without Timex will be a list of hardware and software vendors who are still in business. Active users groups will be just that, groups who are still computing.

You will also find, beginning with this issue, additional features: 2068 WORDPROCESSING: TASWORD AND MSCRIPT; THE HOBBIT; TABLE OF CONTENTS; SYNAPSE INDEX; NEWS EXCHANGE; COMPUTING IN ENGLAND. Depending upon space in our issue, some of the columns may appear every other month.

I would like to remind our readers that we do take ads and classifieds. If you are a paid subscriber you are entitled to a free classified ad on any subject! Ad information is on the back page. A frequent question is: "Are all back issues available?" The answer is yes, they are 1.25 each for single month issues and 2.50 each for double month issues. From now on we will attempt to publish monthly, because of the volunteer nature our newsletter this may not always be possible. One thing that you as readers can help with to see that we publish monthly is to send contributions of material to publish. This may be articles, reviews, hints and tips, pleas for help, software or hardware ideas. This is your newsletter! You are a member of our group even though you may not be able to attend our weekly meetings. We welcome all of your support including your subscription.

Enjoy your newsletter!

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A WORD PROCESSOR FOR THE T/S 1000?

BY
JIM PROUT

SO,YOU DIDNT THINK YOU COULD USE A WORD PROCESSING PROGRAM ON A COMPUTER WITH A 2K MEMORY? WELL, THIS PROGRAM MAY NOT HAVE ALL THE DELUXE FEATURES OF THE SOPHISTICATED PROGRAMS, BUT IT IS A NEAT SYSTEM FOR WRITING LETTERS AND IT IS EASY TO EDIT TO SUIT YOUR INDIVIDUAL NEEDS. ITIS ALSO MENU-DRIVEN AND,AFTER ALL, THESE ARE GOOD BUZZ-WORDS THESE DAYS.

I SET UP THE PROGRAM FOR THREE BASIC TYPES OF LETTERS: INFORMAL, LOVE, AND BUSINESS, JUST TO GIVE YOU SOME IDEA OF THE POSSIBILITIES. SINCE THE PROGRAM WILL HANDLE GRAPHIC SYMBOLS YOU HAVE A LOT OF VARIETY TO WORK WITH.

WHEN YOU RUN THE PROGRAM, IT FIRST ASKS YOU TO SELECT THE TYPE OF LETTER WANT TO WRITE. YOUR SELECTION IS ACKNOWLEDGED AND THEN IT ASKS FOR THE DATE. IF YOU HAVE THE T/S 2040 PRINTER, IT IS BEST TOLIMIT THE DATE TO 12 CHARACTERS INCLUDING SPACES. THIS MEANS YOU SHOULD ABBREVIATE THE NAME OF THE MONTH AND USE THE EUROPEAN OR MILITARY FORMAT SO THAT YOU DONT NEED COMMAS. NEXT, IT ASKS FOR THE ADDRESSEE. AFTER YOU ENTER THE NAME, THE PROGRAM GOES INTO THE WRITING LOOP. AT THIS POINT THE PRINTER WILL TYPE THE HEADING AND THE DATE AND THE CRT SCREEN SHOULD LOOK LIKE FIG. 1 WITH THE CURSOR IN QUOTES. NOW ALL YOU HAVE TO DO IS WRITE. YOU MAY INDENT THE FIRST LINE OF EACH PARAGRAPH SINCE FROM HERE ON EVERYTHING YOU INPUT IS INSIDE THE QUOTATION MARKS. YOU CAN USE GRAPHIC SYMBOLS, NUMBERS, PUNCTUATION AND EDITING PROCEDURES JUST AS YOU DO IN WRITING A PROGRAM LINE. DONT USE KEYWORDS UNLESS YOU SPELL THEM OUT, AND YOU CANT CORRECT AN ERROR AFTER IT IS PRINTED, BUT THOSE ARE MINOR PROBLEMS. WITH A 32-COLUMN PRINTER, DO NOT EXCEED ONE LINE ON THE CRT TO AVOID WRAP-AROUND WHICH MESSES UP THE APPEARANCE OF THE LETTER. THE BEST GUIDE IS TO STOP WRITING OR USE A HYPHEN IF THE QUOTATION MARKS DROP DOWN TO THE NEXT LINE AS THEY DID IN LINE 93 OF THE PROGRAM. FOR EXAMPLE, IF YOU ARE IN THE MIDDLE OF A WORD EITHER DELET IT OR SEPARATE IT WITH A HYPHEN. AS YOU ENTER EACH LINE, IT WILL BE PRINTED ON THE PRINTER AND ALSO DISPLAYED ON THE CRT FOR YOUR REFERENCE. NOW YOU CAN PROCEED WITH THE NEXT LINE. IF YOU WANT A SPACE BETWEEN PARAGRAPHS, JUST PRESS ENTER. (LIKE THIS)

AT THE TOP OF THE SCREEN, THE NAME OF THE ADDRESSEE IS DISPLAYED ALONG WITH THE INSTRUCTIONS FOR WHAT TO DO WHEN YOU ARE FINISHED WITH THE LETTER.

SINCE THE COMPUTER IS ALWAYS WAITING FOR AN INPUT, YOU MUST GET THE PROGRAM MOVING TO USE THE BREAK KEY. THE INSTRUCTIONS MEAN YOU SHOULD PRESS ENTER AND BREAK IN SUCCESSION. THE REPORT CODE WILL SHOW D/75. SINCE YOU ARE IN THE MIDDLE OF A LOOP, DO NOT USE CONT, BUT USE GOTO 200 AND THE COMPUTER WILL DO THE REST. NOW ALL YOU HAVE TO DO IS SIGN YOUR NAME.

IF YOU HAVE A WIDE PRINTER YOU MAY WANT TO MODIFY THE PROGRAM TO FIT THE PAPER. I RECOMMND THAT YOU USE TAB TO POSITION THE DATE AND THE CLOSING. YOU MAY ALSO HAVE TO USE THE TAB IF YOUR NAME AND ADDRESS IS LONGER THAN MINE. THE COMMA WORKED ALL RIGHT FOR ME. THE CLOSINGS ARE SELECTED IN LINES 201, 202, AND 203 FOR THE TYPE OF LETTER CHOSEN AT THE BEGINNING.

THE FORMAT IS EASY TO MODIFY FOR OTHER TYPES OF LETTERS. THE APPARENT EXCESS OF BLANK LPRINT STATEMENTS ARE NECESSARY FOR THE MECHANICAL LAYOUT OF THE LETTER. (JUST TRY IT WITHOUT THEM.) NOTE THAT THE OPERATING MODE IS AUTOMATICALLY SWITCHD TO FAST IN LINE 12. IT IS IMPOSSIBLE TO HANDLE THIS PROGRAM IN SLOW MODE. APPROPRIATE LETTERHEADS COULD ALSO BE INTRODUCED AT LINE 54 USING TECHNIQUES LIKE THOSE I USED FOR THE CLOSINGS, BUT YOU WILL HAVE TO DO SOME RE-NUMBERING OF LINES 55 THROUGH 110. THERE IS STILL LOTS OF ROOM IN THE 2K MEMORY FOR VARIATIONS AND OTHER CLOSINGS.

** continued on -page 4- **

THE BOSTON COMPUTER SOCIETY: SINCLAIR/TIMEX USER GROUP NEWSLETTER
VOLUME 1, ISSUE 5 AUTHOR UNKNOWN NOVEMBER 1982

WHEREFORE THE DATA STATEMENT

The Sinclair/Timex BASIC interpreter has been criticized for not having DATA, READ, and RESTORE statements. Users familiar with the system realize this is not really a problem. The function of the DATA statements can be mimicked by the computer in many, flexible, ways. However, a novice user often finds himself needing to translate programs from a BASIC language which uses the DATA statement. We offer the following.

The DATA statement allows a programmer to define a list of numbers in his program. The READ statement retrieves these numbers, one at a time, and assigns them to a variable. The RESTORE statement forces the READ to scan the list from the beginning again. In order to translate a program which has DATA statements, you must:

1) Include the following routine in your program:

```
500  LET DI=DI+1
510  IF D$(DI)=" " THEN GOTO 500
520  LET DJ=DI
530  LET DJ=DJ+1
535  IF DJ> LEN D$ THEN GOTO 550
540  IF D$(DI) <> " " THEN GOTO 530
550  LET D=VAL D$(DI TO DJ-1)
560  LET DI=DJ
570  RETURN
```

2) Have a statement LET DI = 0 somewhere near the beginning of your program (before doing any READs). Follow this by the DATA statement LET D$ = "your data here ". The data elements (ie numbers) are seperated by blanks. For example, if the program being translated has DATA 5, 10.4, -3, 6.9E-10 then use LET D$ = "5 10.4 -3 6.9E-10"

3) Replace RESTORE statements in the program by LET DI = 0.

4) Finally, replace READ statements by GOSUB 500 followed by LET VARIABLE = D. For example, READ A becomes GOSUB 500 and LET A=D. Error 3 results if you READ past the end of data.

A ♣

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WMJ DATA SYSTEMS
4 Butterfly Drive
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♣ A

FOR SALE: TS1000 AND TS2068 BOOKS
Machine Code and Better Basic (2068); The Working Timex Sinclair 2068; The Explorer's Guide to the ZX81 and Timex Sinclair 1000; 49 Explosive Games for the ZX81; Byteing Deeper into Your Timex Sinclair 1000; The Timex Sinclair 2068 Explored; The Timex Sinclair 2068. All books are $7.00 including postage and handling. These books are used!
Robert Heil, 1525 N. Ashwicken Ct., State College, Pa. 16801

```
TYPE OF LETTER?
  TYPE <F> FOR INFORMAL
  TYPE <L> FOR LOVE
  TYPE <B> FOR BUSINESS
B

DATE?  (LIMIT TO 12 CHARACTERS)
25 FEB 1985

LETTER TO?
ANYONE

WRITE NOW---
```

Fig. 1

```
                          25 FEB 1985
DEAR BILL,

     O.K. BILL, I THINK I HAVE
THIS PROGRAM RUNNING THE WAY I
WANT IT NOW. IT IS MENU-DRIVEN
AND THE PROMPTING IS ON THE
SCREEN WHEN AND WHERE YOU NEED
IT. WITH THIS PROGRAM YOU CAN
EVEN INCLUDE GRAPHICS LIKE
AND  OR --> ETC, ETC.

                    SINCERELY,
                      JIM PROUT
```

Fig. 2

```
                          1 APR 1985
DEAR READER,

     TRY THIS ON YOUR T/S 1000.
IT TAKES LESS THAN 2K OF MEMORY
AND YOU CAN MAKE SURE EACH LINE
IS CORRECT BEFORE YOU PRINT IT.

                    YOURS TRULY,
                    JAMES H. PROUT
                    1169 GARNER ST.
                    STATE COLLEGE,
                    PA        16801
```

Fig. 3

LETTER WRITING PROGRAM

```
  10 REM --"LETPRINT"--25 FEB 85
  11 REM LETTER WRITING PROGRAM
  12 FAST
  15 PRINT "TYPE OF LETTER?"
  21 PRINT "  TYPE <F> FOR INFOR
MAL"
  22 PRINT "  TYPE <L> FOR LOVE"
  23 PRINT "  TYPE <B> FOR BUSIN
ESS"
  30 INPUT T$
  31 PRINT T$
  33 PRINT
  40 PRINT "DATE?  (LIMIT TO 12
CHARACTERS)"
  45 INPUT D$
  46 PRINT D$
  47 PRINT
  50 PRINT "LETTER TO?"
  51 INPUT N$
  52 PRINT N$
  53 PRINT
  55 LPRINT
  56 LPRINT
  57 LPRINT TAB 20;D$
  58 LPRINT "DEAR ";N$;","
  59 LPRINT
  60 PRINT "WRITE NOW---"
  70 INPUT L$
  75 LPRINT L$
  80 CLS
  90 PRINT "LETTER TO:"
  91 PRINT "   ";N$
  92 PRINT
  93 PRINT "TO EXIT LETTER MODE,
"
  94 PRINT "PRESS ENTER/BREAK,TH
EN"
  95 PRINT "     GOTO 200"
 100 PRINT AT 15,0;L$
 110 GOTO 70
 200 LPRINT
 201 IF T$="F" THEN GOTO 300
 202 IF T$="L" THEN GOTO 400
 203 IF T$="B" THEN GOTO 500
 300 LPRINT ,"SINCERELY,"
 301 LPRINT
 302 LPRINT
 303 LPRINT TAB 20;"JIM PROUT"
 304 LPRINT
 305 LPRINT
 306 LPRINT
 310 STOP
 400 LPRINT ,"LOADS OF LOVE,"
 401 LPRINT
 402 LPRINT
 403 LPRINT TAB 20;"JIM"
 404 LPRINT
 405 LPRINT
 406 LPRINT
 410 STOP
 500 LPRINT ,"YOURS TRULY,"
 501 LPRINT
 502 LPRINT
 503 LPRINT ,"JAMES H. PROUT"
 504 LPRINT ,"1169 GARNER ST."
 505 LPRINT ,"STATE COLLEGE,"
 506 LPRINT ,"PA        16801"
 507 LPRINT
 508 LPRINT
 509 LPRINT
 510 STOP
```

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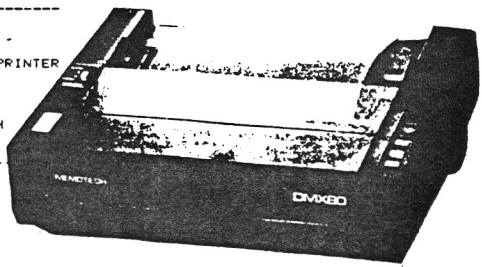

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THE TS2068 AND WORDPROCESSING

WHAT'S AVAILABLE?

One of the origional purposes of the 2068 was to have an inexpensive wordprocessing system that everyone could afford. MSCRIPT was developed by Timex and distributed to Beta Testers for review; those people who had the first peek at MSCRIPT were impressed with its capabilities. Then Timex did the unforgiveable, they got out of the computer business.

The rights to MSCRIPT were bought by 21st Century Electronics and they have allowed "authorized dealers" to distribute MSCRIPT. They will continue to refine MSCRIPT: changes to improve its performance, a newsletter to inform users of updates, a micro drive version, a disc version, and a cartridge card version. If you have bought MSCRIPT from one of the following authorized dealers you will be privy to these enhancements at minimum cost to you. Authorized dealers issue an ID card with the product in order to distinguish between legitimate owners and "pirates". Authorized dealers are:

21st Century Electronics, 6813 Polk St., Guttenberg, NJ 07093

Games to Learn By, 2 South St., Box 575, Williamsburg, MA 01096

Aerco, PO Box 18093, Austin, TX 78760

Tom Woods, PO Box 64, Jefferson, NH 03583

Zebra Systems, 78-06 Jamaica Ave, Woodhaven, NY 11421

TEJ Comp. Products, 859 N. Virgil Ave., Los Angeles, CA 90029

Sunset Electronics, 2254 Taraval, San Francisco, CA 94116

There is another very popular wordprocessor that was imported from England: TASWORD. Unfortunately, I know very little about its history. I prefer to use MSCRIPT, however, since TASWORD is popular also I will attempt to give equal time in this column. As I find out who the dealers are for TASWORD I will publish them in this column. Other wordprocessors available: TEXTWRITER 2000 and TESTWRITER 2000+.

INTERFACING

At the moment, output from the wordprocessors can go to your Timex printer without an interface. If you wish to output to a full size printer, you need to buy an interface. At the moment, I know of only two for the 2068: Aerco parallel interface and Tasman parallel interface. Origionally, If you bought the Aerco interface you had to use MSCRIPT; and if you bought the Tasman interface you had to use TASWORD. Now there are ways to adapt both the interfaces and/or programs so that they are interchangeable. Although SYNAPSE has the change necessary to make the "origional" MSCRIPT work with the Tasman interface, we are waiting for publishing rights. We are currently working on a change that will allow the Aerco version to work with the Tasman interface. We will publish suggestions for the MANNESMAN TALLY AND MTX80 printers in this column.

PRINTERS

Nearly any parallel printer may be hooked up to the 2068. This means that it can receive information from the interface in a parallel fashion, ie whole bytes at a time instead of a bit at a time (serial input). This is much faster than using a serial input printer. The printer I am working with, and which will be featured in this column, is the MANNESMAN TALLY SPIRIT 80. 21st Century Electronics will be supplying me with information about the MTX80 by Memotech. Specific help with your printer's codes can be done if you supply me with enough information about the codes and where it is you are having trouble. Once you have your wordprocessor hooked up to a printer, you are only limited by your imagination, printer codes and the abilities of your particular printer. Readers may write to me with information about other wordprocessors, dealers, interfaces, printers and techniques for wordprocessing; I will be happy to include that information in this column along with your name.

MSCRIPT-GETTING STARTED

Load the program as you would any other; there are two parts. Wait until both have loaded! You will find yourself viewing a blank screen except for some characters at the bottom of the screen. MSCRIPT gives you a 64 column screen and you may find it difficult to read if you are using a TV; an inexpensive monitor will help. Otherwise you may need to spend some time adjusting your TV screen for the easiest readable screen. To get a screen full of characters easily hold down the caps shift key and briefly press the break key. You will be looking at the global command menu. Return to the blank screen by repeating the key presses mentioned above. When you are back to the blank screen you are ready to write! Use you keyboard just as if it were a typewriter, practice moving around what you have typed to the screen by using the caps shift key along with the cursor keys (keys 5, 6, 7 and 8). Characters are removed by using the caps shift and 0 key (delete). Most of your word processing functions are accesible through the shift keys. Until the next column you should spend time going through the manual as much as possible, that way you are sure of what I'm talking about.

TASWORD-GETTING STARTED.

Unfortunately, TASWORD is not so easy to use. It also uses 64 column mode but allows you to switch to the 32 column mode for easier reading if you do not have a monitor. The 32 column mode is fine if you only have a Timex Printer, however, if you have a full size printer the 64 column mode is a much more realistic mode to operate in since most printers print 80 characters across. Along with the instruction manual you will find a Tutor Text which will step you through most of the instructions, this is of great help since TASWORD is somewhat more complicated to use than MSCRIPT; the layout of the function keys does not seem logical. This may just be a personal feeling since I am so used to MSCRIPT. As with all programs, with a little practice you can get used to any style of program. Load TASWORD as you would any other program, wait until both parts are loaded. The program will tell you when to stop the tape, you are then ready to enter text.

At this point I have run out of space in this issue; spend time going over the instruction manual included with your wordprocessor. Do not worry about learning everything immediately, you can learn what you need as you go along. In future columns I will go over the various functions for keying in and editing text giving hints on some of the better ways to handle your text. If you feel that you are not getting enough from the column fast enough just drop me a note with any questions or problems you may have. If there is room in subsequent issues, I will print your letter along with a response. Printing out your text can be done with such variety that we will probably spend a great deal of time in explaining how to set up your printer(s) to do exactly what you wish. Any time you feel that I am ommitting information that should be covered just let me know. Until next time: have fun!

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```
mil      gal          tbs
 oz   C O N V E R T     c
lb          gm         qt
```

HAVE YOU EVER TRAVELED IN CANADA OR EUROPE OR SOME OTHER AREA THAT USES METRIC MEASURE OF LIQUIDS (AND SOME SOLIDS)?

LET'S SUPPOSE YOU'VE FOUND THAT LITTLE RESTAURANT IN THE SOUTH OF FRANCE THAT MAKES A DISH YOU CAN'T RESIST. THE CHEF, AMAZED THAT A FOREIGNER APPRECIATES HIS EEL EYE STEW, GRATIOUSLY GIVES YOU HIS RECIPE FOR THE DISH.

A FEW MONTHS AFTER YOU'VE COME HOME YOU DECIDE TO MAKE THAT FABULOUS STEW ONLY TO REALIZE ALL THE MEASUREMENTS ARE STRANGE TO YOU. ALL THE INGREDIANTS ARE INDICATED AS GRAMS, MILLILITERS, OR KILOGRAMS.

FRET NO MORE! IF YOU HAVE A TS/2068 AND THIS CONVERSION PROGRAM WRITTEN BY CHARLIE DAY, YOU CAN MAKE THAT EXOTIC DISH.

FOR THOSE WHO DON'T HAVE A TS/2068, THE PROGRAM CAN BE ALTERED TO RUN ON A ZX81, TS/1000/1500 BY ELIMINATING THE FOLLOWING COMMANDS AND THEIR VALUES...BORDER, INK, PAPER, AND FLASH...CHANGE ANY PAUSE 0 TO PAUSE 4E4...ELIMINATE THE COLON (:) AND PUT THE COMMAND THAT FOLLOWS ON A SEPARATE LINE NUMBER (THE 2068 IS CAPABLE OF MULTIPLE COMMANDS PER LINE NUMBER).

ANOTHER CHANGE YOU'LL HAVE TO WATCH FOR CAN BE SEEN IN LINE 80. FOR THE 81/1000/1500 THE PROGRAM CHANGE SHOULD BE:

```
  80 PRINT "DO YOU WANT A COPY
OF THE SCREEN?"
  81 INPUT C$
```

THE SAME SHOULD BE DONE FOR LINE 100...REPLACE THE "INPUT" WITH "PRINT" AND ADD...

```
 101 INPUT A
```

THAT CHANGE SHOULD BE MADE THROUGHOUT THE PROGRAM.

```
   5 REM ** By Charlie Day **
  10 BORDER 1: INK 1: PAPER 6
  20 LET a$="Measurment Conversi
ons"
  30 CLS : FOR i=1 TO 32: PRINT
"▄";: NEXT i: PRINT a$: FOR i=1
TO 32: PRINT "▄";: NEXT i
  40 PRINT AT 5,1;"1","Teaspoons
";AT 6,1;"2","Tablespoons";AT 7,
1;"3","Cups";AT 8,1;"4","Pints";
AT 9,1;"5","Quarts";AT 10,1;"6",
"Gallons";AT 11,1;"7","Milliters
";AT 12,1;"8","Liters";AT 13,1;"
9","Ounces";AT 14,1;"10","Pounds
";AT 15,1;"11","Grams";AT 16,1;"
12","Kilograms"
  50 PRINT AT 20,10; FLASH 1;"En
ter Choice"
  60 INPUT LINE b$
  65 IF VAL b$<0 OR VAL b$>12 TH
EN GO TO 60
  67 CLS : FOR i=1 TO 32: PRINT
"▄";: NEXT i: PRINT a$: FOR i=1
TO 32: PRINT "▄";: NEXT i
  70 GO SUB (10*(VAL b$)+90)
  80 INPUT "Do you want a copy o
f the screen?"; LINE c$
  85 IF c$="y" OR c$="yes" THEN
COPY
  90 PRINT AT 19,3; FLASH 1;"Pre
ss any key to continue": PAUSE 0
: GO TO 30
 100 INPUT "How many teaspoons?
";a
 105 PRINT a;" teaspoons","="'a
/3,"TBS"'a/48,"Cups"'a/96,"Pints
"'a/192,"Quarts"'a/768,"Gallons"
'a*4.9288665,"Milliters"'a*.0049
288665,"Liters": RETURN
 110 INPUT "How many tablespoons
? ";a
 115 PRINT a;" tablespoons","="'
'a*3,"TSP"'a/16,"Cups"'a/32,"Pin
ts"'a/64,"Quarts"'a/256,"Gallons
"'a*14.786598,"Milliters"'a*.014
78658,"Liters": RETURN
 120 INPUT "How many cups? ";a
 125 PRINT a;" cups","="'a*48,"
TSP"'a*16,"TBS"'a/2,"Pints"'a/4,
"Quarts"'a/16,"Gallons"'a*236.58
557,"Milliters"'a*.23658557,"Lit
ers": RETURN
 130 INPUT "How many pints? ";a
 135 PRINT a;" pints","="'a*96,
"TSP"'a*32,"TBS"'a*2,"Cups"'a/2,
"Quarts"'a/8,"Gallons"'a*473.171
15,"Milliters"'a*.47317115*a,"Li
ters": RETURN
 140 INPUT "How many quarts? ";a
 145 PRINT a;" quarts","="'a*19
2,"TSP"'a*64,"TBS"'a*4,"Cups"'a*
2,"Pints"'a/4,"Gallons"'a*946.34
23,"Milliters"'a*.9463423,"Liter
s": RETURN
 150 INPUT "How many gallons? ";
a
 155 PRINT a;" gallons","="'a*7
68,"TSP"'a*256,"TBS"'a*16,"Cups"
'a*8,"Pints"'a*4,"Quarts"'a*3785
.3692,"Milliters"'a*3.7853692,"L
iters": RETURN
 160 INPUT "How many milliters?
";a
 165 PRINT a;" milliters","="'a
/4.9288665,"TSP"'a/14.786599,"TB
S"'a/236.58558,"Cups"'a/473.1711
6,"Pints"'a/946.3423,"Quarts"'a/
3785.369,"Gallons"'a/1000,"Liter
s": RETURN
 170 INPUT "How many liters? ";a
 175 PRINT a;" liters","="'a/.0
049288665,"TSP"'a/.014786599,"TB
S"'a/.23658558,"Cups"'a/.4731711
6,"Pints"'a/.9463423,"Quarts"'a/
3.785369,"Gallons",a*1000,"Milli
ters": RETURN
 180 INPUT "How many ounces? ";a
 185 PRINT a;" ounces","="'a/16
,"Pounds"'a/32000,"Tons"'a*28.35
,"Grams"'a*.02835,"Kilograms"'a*
16,"Drams": RETURN
 190 INPUT "How many pounds? ";a
 195 PRINT a;" pounds","="'a*16
,"Ounces"'a/2000,"Tons"'a*453.6,
"Grams"'a*.4536,"Kilograms": RET
URN
 200 INPUT "How many grams ";a
 205 PRINT a;" grams","="'a/28.
35,"Ounces"'a/453.6,"Pounds"'a/9
07200,"Tons"'a/1000,"Kilograms":
 RETURN
 210 INPUT "How many kilograms?
";a
 215 PRINT a;" kilograms","="'a
/.02835,"Ounces"'a/.453597,"Poun
ds"'a/907.200,"Tons"'a*1000,"Gra
ms": RETURN
```

END

CONVERSATIONAL FRENCH

PRESS ANY KEY TO BEGIN

TITLE: CONVERSATIONAL FRENCH
MEMORY: 16K
BY: TIMEX

REVIEWED BY CAROLE L. KRILL

CONVERSATIONAL FRENCH IS A PROGRAM TO TEACH TO THE BEGINNER OR REVIEW FOR THE INITIATED A FILE OF 240 FRENCH WORDS AND 50 COMMONLY USED FRENCH PHRASES. ONE MUST BEAR IN MIND THAT THE TITLE IS USED IN THE SENSE OF "COMMON WORDS AND PHRASES USED IN CONVERSATION," SINCE, OBVIOUSLY, NO CONVERSATION IS HEARD. IT WOULD BE NICE IF AN AUDIO TAPE COULD ACCOMPANY THIS TYPE OF PROGRAM AS PRONUNCIATION IS NOT TAKEN INTO ACCOUNT AT ALL. ONE MUST ALSO REALIZE FROM THE OUTSET THAT NO ACCENT MARKS ACCOMPANY THE FRENCH WORDS, SINCE THERE IS NO WAY TO PRODUCE THEM ON THE ZX/TS 1000 OR 1500 WITHOUT GETTING INTO USER DEFINED GRAPHICS.

CHOOSE MODE:
(1) ENGLISH TO FRENCH
(2) FRENCH TO ENGLISH
(3) ENGLISH TO FRENCH PHRASES
(4) FRENCH TO ENGLISH PHRASES
(5) REVIEW WORDS
(6) REVIEW PHRASES

THE WORDS AND PHRASES IN THE FILE ARE COMMONLY-USED ONES, AND ARE A FAIR SAMPLING OF VOCABULARY WHICH WOULD BE HELPFUL TO SOMEONE PLANNING A TRIP OR TO A 2ND OR 3RD YEAR STUDENT WHO WANTS TO RVIEW AT THE BEGINNING OF A SCHOOL TERM. ALONG WITH COMMON PHRASES, INDIVIDUAL WORDS INCLUDE:

NUMBERS, COLORS, FAMILY RELATIONS, PARTS OF THE BODY, ANIMALS, GREETINGS, PARTS OF A BUILDING, COMMONLY USED ITEMS, FOOD, DRINK, EATING UTENSILS, CLOTHING, DIRECTIONS, DAYS OF THE WEEK, COMMON ADJECTIVES, AND PLACES.

PHRASES

TOURNEZ A DROITE
TURN TO THE RIGHT

TOURNEZ A GAUCHE
TURN TO THE LEFT

JE M"APPELLE
MY NAME IS

ALLEZ A LA PORTE
GO TO THE DOOR

VENEZ ICI
COME HERE

THE PROGRAM IS COMPOSED OF 10-QUESTION QUIZZES FROM ENGLISH TO FRENCH AND VICE VERSA. THE FRENCH TO ENGLISH PHRASE QUIZZES CAN BECOME TEDIOUS BECAUSE THERE ARE MANY WAYS THAT ONE CAN TRANSLATE A GIVEN EXPRESSION, WHILE THE PROGRAM ONLY RECOGNIZES ONE AND CONSIDERS THE OTHERS WRONG. THIS COULD BE VERY DISCOURAGING TO A STUDENT. FOR THIS REASON, I WOULD SUGGEST THAT ANYONE USING THIS PROGRAM - A BEGINNER OR EVEN A PERSON WHO KNOWS FRENCH - SHOULD GO THROUGH THE REVIEW MODES FIRST (BEFORE ATTEMPTING A QUIZ) TO BECOME FAMILIAR WITH THE IDIOSYNCRACIES OF THE PROGRAM FILE.

WHAT IS THE ENGLISH PHRASE FOR:
LE TEMPS EST MAGNIFIQUE
THE WEATHER IS BEAUTIFUL

---WRONG---

THE PHRASE WAS :
THE WEATHER IS MAGNIFICENT

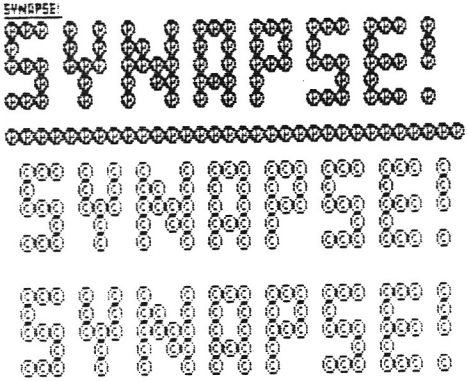
PRESS ANY KEY TO CONTINUE

CONVERSATIONAL FRENCH IS NOT MEANT TO TAKE THE PLACE OF A CLASSROOM LANGUAGE COURSE, BUT IT IS AN ACCEPTABLE MEANS FOR SELECTIVE LEARNING OR REVIEW.

OH! LA LA!

This was contributed by Phillip Crosby for the TS2068. Phillip is a new member to our group. This program cannot be converted to the TS1000

SYNAPSE!



```
  40 GO SUB 9000
 100 PRINT "SYNAPSE!"
 170 FOR z=0 TO 31 STEP 8
 180 FOR x=0 TO 6
 200 FOR y=0 TO 7
 300 IF POINT (y+z,175-x)=0 THEN
LET p$=" "
 304 IF stop=2 AND POINT (y+z,17
5-x)>0 THEN LET p$="8"
 306 IF stop=1 AND POINT (y+z,17
5-x)>0 THEN LET p$="+"
 310 IF stop=0 AND POINT (y+z,17
5-x)>0 THEN LET p$="@"
 400 IF stop=0 THEN PRINT AT 1+x
,y+z; OVER 1; FLASH 1; INK 4;p$
 402 IF stop=1 THEN PRINT AT 1+x
,y+z; OVER 1; INK 2;p$
 404 IF stop=2 THEN PRINT AT 1+x
,y+z; OVER 1; BRIGHT 1; INK 1;p$
 405 INK 9
 410 NEXT y
 414 NEXT x
 420 NEXT z
 425 IF stop=1 THEN GO TO 1000
 430 IF stop=2 THEN GO TO 450
 440 GO TO 500
 450 FOR x=1 TO 7: PRINT AT 14+x
,0; FLASH 1; INK 2;b$(x): NEXT x
 450 POKE 23691,23: PRINT #1; FL
ASH 1; BRIGHT 1; INK 1;AT 0,6;"T
HATS ALL FOLKS!!"
 465 PAUSE 3E4
 470 STOP
 500 FOR v=0 TO 6
 560 FOR h=0 TO 30
 600 LET b$(v+1)( TO h+2)=b$(v+1
)( TO h+1)+SCREEN$ (v,h)
 700 NEXT h
 750 PRINT AT 8+v,0; PAPER 3; IN
K 4;b$(v+1)
 800 NEXT v
1000 LET stop=stop+1
5000 GO TO 110
```

```
9000 POKE USR "a"+0,BIN 11101010
9001 POKE USR "a"+1,BIN 10001010
9002 POKE USR "a"+2,BIN 11101110
9003 POKE USR "a"+3,BIN 00100100
9004 POKE USR "a"+4,BIN 11100100
9005 POKE USR "a"+5,BIN 00000000
9006 POKE USR "a"+6,BIN 11111111
9007 POKE USR "a"+7,BIN 00000000
9010 POKE USR "b"+0,BIN 10010111
9011 POKE USR "b"+1,BIN 11010101
9012 POKE USR "b"+2,BIN 11110101
9013 POKE USR "b"+3,BIN 10110111
9014 POKE USR "b"+4,BIN 10010101
9015 POKE USR "b"+5,BIN 00000000
9016 POKE USR "b"+6,BIN 11111111
9017 POKE USR "b"+7,BIN 00000000
9020 POKE USR "c"+0,BIN 01110111
9021 POKE USR "c"+1,BIN 01010100
9022 POKE USR "c"+2,BIN 01110111
9023 POKE USR "c"+3,BIN 01000001
9024 POKE USR "c"+4,BIN 01000111
9025 POKE USR "c"+5,BIN 00000000
9026 POKE USR "c"+6,BIN 11111111
9027 POKE USR "c"+7,BIN 00000000
9030 POKE USR "d"+0,BIN 01110100
9031 POKE USR "d"+1,BIN 01000100
9032 POKE USR "d"+2,BIN 01110100
9033 POKE USR "d"+3,BIN 01000000
9034 POKE USR "d"+4,BIN 01110100
9035 POKE USR "d"+5,BIN 00000000
9036 POKE USR "d"+6,BIN 11111111
9037 POKE USR "d"+7,BIN 00000000
9070 LET stop=0
9080 DIM b$(9,32)
9100 RETURN
```

NEEDED: Hardware and software reviews, hints, tips, projects, public domain software or anything that pertains to the TS1000 and ZX80/ZX81 computers. Even though these computers are not produced any longer there are still many people out there who use (or perhaps wish they could use) them. I have gotten many requests for support for these computers, all I need is someone to fill those requests. Why not pretend that these computers just came out and no one knows a thing about them. You just bought one and, to your surprise, you just discovered something really neat. Why not share it with us? Submit your material in any form convenient to you (as long as it is legible to me!) and you can get your name in print. Some ideas: BASIC TUTORIAL, MACHINE CODE TUTORIAL, ADDING A FULL SIZE KEYBOARD TO YOUR ITTY BITTY MACHINE, HOOKING UP TO A COMPOSITE MONITOR, ADDING SOUND TO YOUR KEYBOARD, WORDPROCESSING, MICRODRIVES AND THE TS1000, FULL SIZE PRINTERS, MORE MEMORY FOR THE 2K TS1000, PROGRAMMING A 2K MACHINE, etc., etc., etc. Get the idea? Submit material to: SYNAPSE

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Your company, if it is still supporting Timex/Sinclair computers will be mentioned in this column only once. Your name, address, phone number and general description of products will be listed. After this first listing all furthur advertisement must be paid for according to our rates as posted on our back page. A maximum of ten companies per issue will be listed.

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   Guttenberg, NJ 07093
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   hardware, software, books
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   Tucson, AZ 85731
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   707 Highland St.
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   Jefferson, NH 03583
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   systems.
   (ts1000/ts2068)

ACTIVE USERS GROUPS

Your user group will be mentioned in this column if our group and your group are actively exchanging newsletters or you send us a note indicating that you are still meeting on a regular basis. Every time a current newsletter or note is received we will publish your groups name, address and contact person.

One last reminder to all groups with whom we exchange newsletters: we will begin to reprint selected programs and articles from our exchange newsletter files. This will make sure that some of the best information doesn't get lost in file 19. The group's name, author of the reprinted article, and address of group will be printed with the reprint thus giving recognition to the origional contributors. I have received NO MENTION FORBIDDING US FROM DOING THIS. This is the last time you have of asking us not to reprint your articles.

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609 EN 18TH
ABILENE, TX 79601

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TS USERS CLUB OF TORONTO
C/O GEORGE CHAMBERS
14 RICHOME COURT
SCARBOROUGH, ONTARIO
CANADA M1K 2Y1

SYNCWARE NEWS
C/O TOM BENT
9016 FLICKER PLACE
COLUMBIA, MD 21045

KEYBOARDS...
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PO BOX 644
SAFETY HARBOR, FL 33572

QUARTERS
BY WMJ DATA SYSTEMS
4 BUTTERFLY DRIVE
HAUPPAUGE, NY 11788

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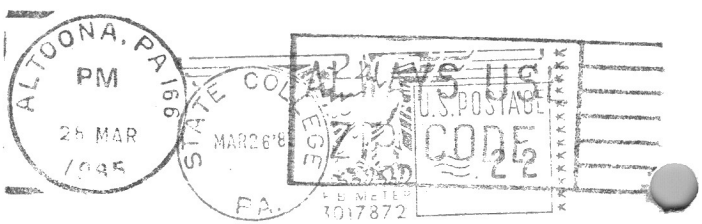

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